

**CPC****COOPERATIVE PATENT CLASSIFICATION****C10H****PRODUCTION OF ACETYLENE BY WET METHODS** { (purification of acetylene [C07C 7/00](#)) }**Guide heading:****C10H 1/00****Acetylene gas generators with dropwise, gravity, non-automatic water feed** (valves, cocks [F16K](#) )[C10H 1/02](#)

. Valves

[C10H 1/04](#)

. . Screw valves

[C10H 1/06](#)

. . Cocks

[C10H 1/08](#)

. Other means for controlling the water feed

[C10H 1/10](#)

. Water feed from above through a central or lateral pipe

[C10H 1/12](#)

. Water feed from above through porous materials

**C10H 3/00****Acetylene gas generators with automatic water feed regulation by means independent of the gas-holder**[C10H 3/02](#)

. with membranes

[C10H 3/04](#)

. with floats

[C10H 3/06](#)

. with pistons

**C10H 5/00****Acetylene gas generators with automatic water feed regulation by the gas-holder**[C10H 5/02](#)

. with overflow for the water

[C10H 5/04](#)

. by drop-by-drop water valves connected with the gas-holder

[C10H 5/06](#)

. . by drop-by-drop water cocks connected with the gas-holder

[C10H 5/08](#)

. with gas-holder-connected water valves or cocks according to the submersion system

**C10H 7/00****Acetylene gas generators with water feed by Kipp`s principle**[C10H 7/02](#)

. with water feed from below

[C10H 7/04](#)

. with water feed from above

**C10H 9/00****Acetylene gas generators according to Dobereiner`s principle with fixed carbide**

**bell**

- C10H 9/02 . with water feed from below through porous materials (by capillary feed)
- C10H 9/04 . with gas cock actuated by the gas holder
- C10H 9/06 . with the depth of the gas outlet pipe regulated by the gas-holder
- C10H 9/08 . with movable gas-holder
- C10H 9/10 . by wetting the carbide only at the bottom

**C10H 11/00 Acetylene gas generators with submersion of the carbide in water**

- C10H 11/02 . inside the gas-holder
- C10H 11/04 . with sealing and reaction water separated from each other

**C10H 13/00 Acetylene gas generation with combined dipping and drop-by-drop system****C10H 15/00 Acetylene gas generators with carbide feed, with or without regulation by the gas pressure**

- C10H 15/02 . with non-automatic carbide feed
- C10H 15/04 . . Closure means at the filling-hopper
- C10H 15/06 . with automatic carbide feed by valves
- C10H 15/08 . . by flap or slide valves
- C10H 15/10 . . by float valves
- C10H 15/12 . . by measuring valves, including pocket-wheels
- C10H 15/14 . with feed worm or feed conveyers
- C10H 15/16 . with feed drums
- C10H 15/18 . with movable feed disc and fixed carbide-receptacle
- C10H 15/20 . with carbide feed by cartridges or other packets
- C10H 15/22 . with carbide feed of pulverous carbide from receptacles or through the gas-holder
- C10H 15/24 . with carbide feed by pistons

**C10H 17/00 High-pressure acetylene gas generators**

**C10H 19/00**      **Other acetylene gas generators**

- C10H 19/02      .    Rotary carbide receptacles

**C10H 21/00**      **Details of acetylene generators**  
**Accessory equipment for, or features of, the wet production of acetylene**

- C10H 21/02      .    Packages of carbide for use in generators, e.g. cartridges
- C10H 21/04      . .    Placing packages in the generator
- C10H 21/06      . . .    Opening devices for packages in the generator
- C10H 21/08      .    Safety devices for acetylene generators
- C10H 21/10      .    Carbide compositions
- C10H 21/12      .    Gas-tight sealing means, e.g. liquid seals in generators
- C10H 21/14      .    Ventilation means  
                    Cooling devices
- C10H 21/16      .    Removing sludge from generators